

**43.** The ion guide of claim **42** wherein each of the electrodes forming the set of electrode rings include an aperture defined therein, such that the ion guide includes a plurality of apertures.

**44.** The ion guide of claim **43** wherein the plurality of apertures are aligned with one another.

**45.** The ion guide of claim **42** wherein the plurality of apertures form a set of closed pupils.

**46.** The ion guide of claim **42** wherein the compatible structures are upstanding from and proud of their respective substrates.

**47.** The ion guide of claim **43** wherein at least some of the structures have grooves formed in an upper surface thereof.

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